

# Kamay Botany Bay Environmental Education Centre

## Excursion outline

### Stage 6: Beaches and Bays

#### Biophysical Interactions. Fieldwork at Bate Bay, Cronulla

This field study will involve students undertaking several activities at the dune systems of Bate Bay. The activities are designed to support the focus of the Biophysical Interactions component of the preliminary course, “*a geographical investigation of biophysical processes and how an understanding of these processes contributes to sustainable management*”.

More specifically these field activities will ask students to:

#### **OUTCOMES**

- Differentiate between spatial and ecological dimensions in the study of geography.
- Describe the interactions between the four components which define the biophysical environment.
- Explain how specific environments function in terms of biophysical factors.
- Select, organise and analyse relevant geographical information from a variety of sources.
- Apply mathematical ideas and techniques to analyse geographical data.

The content of the study will allow students to learn about:

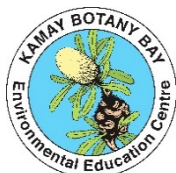
#### **COMPETENCIES/SKILLS**

- *Human impact on the spheres.*
- *Constructing and interpreting flow charts.*
- *Constructing transects.*
- *Collecting and analysing field data.*
- *(Considering how) to use geographical data to contribute to environmental impact assessment.*

At each site students will gather information on biophysical processes through measurement, observation and reading and research. Activities will include the opportunity for using and constructing maps and graphs and recording geographical information through photographic, written and other methods appropriate to the sites studied.

Students will be asked to formulate a management plan for the sites incorporating the information they have gathered.

**Equipment needed:** Please bring ruler, pens, pencils and graph paper; cameras if wishing to use this method of recording information.



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## Booking Information

<b>Location</b>	Wanda Surf club, corner Murdock Street & Marine Esplanade, Wanda
<b>Bus booking</b>	Meet at Wanda Surf club
<b>Timing</b>	Ideally schools should allow 4 hours for the program, including meal and toilet breaks.
<b>Bring</b>	Medications, food, water, sunblock, hats and wet weather gear
<b>Appropriate dress</b>	Students should wear clothing/shoes suited to working in an outdoor environment and appropriate to the season.
<b>Staffing</b>	The EEC complies with NSW DEC policy for a student/adult ratio of 15:1 for bushwalking. Parent helpers welcome, no pre-schoolers.
<b>Extreme or wet weather</b>	May result in the excursion being modified, postponed, or cancelled. An out of hours contact number will be supplied in your booking information.
<b>Medical or special needs</b>	Please notify EEC staff at time of booking
<b>Risk Management Guidelines</b>	Will be provided at the time of booking
<b>Excursion Pack</b>	Teacher background notes and digital worksheets will be provided (NB: worksheets must be printed and brought on the day).
<b>Expectations of visiting schools</b>	<ul style="list-style-type: none"> <li>• Visiting teachers will actively participate in all activities.</li> <li>• Whilst the EEC teacher is responsible for the general discipline of the day, the visiting teacher should be supportive and intervene if necessary if there is a difficulty with an individual student.</li> <li>• During recess and lunch breaks, both the visiting teacher and the EEC teacher are responsible for the control of the group.</li> <li>• Students should be reminded that all flora and fauna are protected and must not be damaged or disturbed.</li> </ul>

